

SOUTH FLORIDA WATER MANAGEMENT DISTRICT

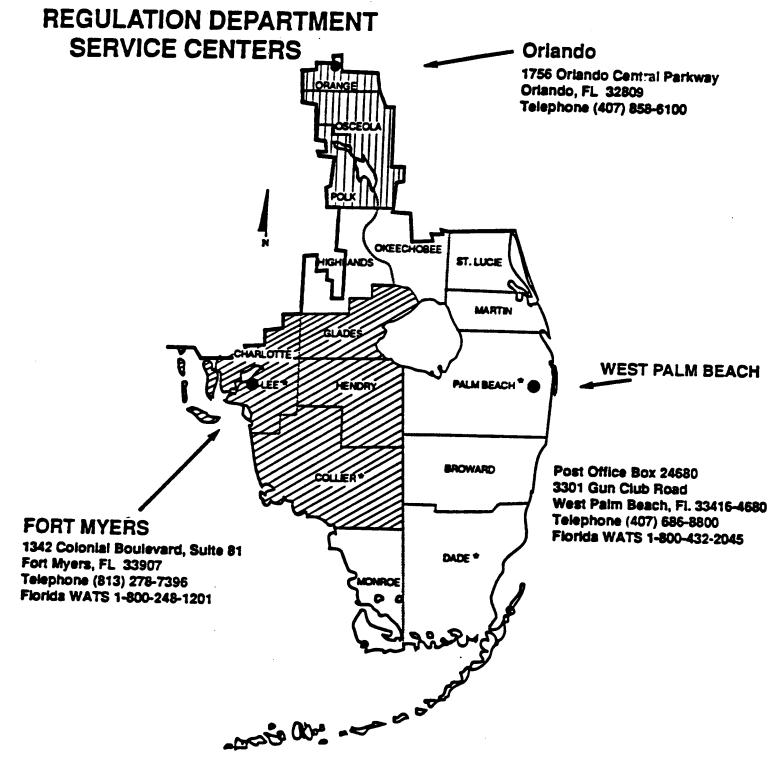
P.O. Box 24680 3301 Gun Club Road West Palm Beach, FL 33416-4680

Telephone: (407) 686-8800 Florida WATS Line: 1-800-432-2045

GUIDANCE FOR PREPARING AN APPLICATION FOR A WATER USE PERMIT



WATER MANAGEMENT DISTRICT



^{*}Applications for well construction permits within each of the counties designated with a """ should be submitted to the appropriate local reviewing agency. Applications for all other well construction permits and all water use individual permits should be submitted to the West Palm Beach Service Center. Applications for all surface water management individual and general permits, and water use general permits within each of the three areas designated on this map should be submitted to the appropriate service center.



Form 0645-G53

TABLE OF CONTENTS

		<u>Page</u>
introdu	ction	iii
	ALL PERMITS	
Section	n I - Site Information	I-1
A:	Location Sketch	
B:		
C:		
D:		
Section	II - Project Information	
Occuon	The Project information	. 11-1
A:	General Information	. 11-1
B:	Environmental Resource	. 11-1
C:	Right-of-Way Occupancy	
D:	Facilities	. II-1
E:	Water Problems	. II-1
F:	Location of Pollution Sources	. II-2
G:	Type of Water Use Information	. 11-2
H:	Other	. II-2
		. II-Z
	INDIVIDUAL PERMITS	
Section	III - Irrigation Water Lies	
Occion	III - Irrigation Water Use	. 111-1
A:	Ownership and Land Use	111-1
B:	Crop Type and Irrigation System	 1
C:	Water Use	
D:	Water Conservation	. 111-2
E:	Freeze Protection	. 111-2
F:	Golf Course Irrigation	. 111-3
G:	Other	. III-3
Section I	IV - Public Water Supply Water Use	I\/_ 1
		. 14-1
A:	Population and Water Demand Analysis	. IV-1
B:	Service Area	IV-1
C:	Facilities	IV-2
D:	Raw Water Quality	IV-2
E:	Reverse Osmosis Treatment	IV-2
F:	Water Conservation	11/-3
G:	Wellfield Protection	11/4
H:	Other	17-4



Section	n V - Mining/Dewatering Water Use
A :	
B:	Ownership and Land Use
C:	Project Description
D:	Location
E:	Water Quality V-2 Historical Water Llegge V-2
F:	· motoriodi vvater OSAUE
G:	Tractor rable and Geologic Data
U. H:	Transport Official and Structural Standing
1:. 1:	Cwatering in Conjunction with Landini Operation
٠.	Other
Section	VI - Industrial Water Use VI-1
A:	Ownership and Land Use
B:	Water Demand Analysis
C:	Facilities
D:	Processes and Wastewater Disposal
E:	Processes and Wastewater Disposal
F:	Water Conservation
	Other
	GENERAL PERMITS
Section \	/II - General Water Use Permits
A:	Ownership and Land Use
B:	- one of mornation
C:	Type : Water Ose
D:	Other Information
	VII-1
	IF APPLICABLE
Section V	III - Works of the District-Surface Water Improvement and Management VIII-1
	TABLES
Exca A - D B - D C - D D - C E - W F - Pa	Ands Control Elevation Phased Projects Vation Projects escription of Wells escription of Surface Water Pumps escription of Irrigation Culverts rop Information Vater Use for 12 Month Period ast Water Use rojected Water Use rojected Water Demand II-5 rojected Water Demand IV-6



INTRODUCTION

A complete discussion of District policies and requirements for water use permit applications is in the Basis of Review for Water Use Permit Applications within the South Florida Water Management District (commonly referred to as The "Basis of Review"). "The Basis of Review" is contained in the District publication Management of Water Use Permitting Information Manual Volume III (commonly referred to as "Volume III"). If you plan to file an application for a District water use permit, you should obtain a copy of Volume III and become familiar with those parts of it which pertain to your project. Copies of Volume III are available at the District main office, service centers, and at most District field stations.

Applications for new water use permits will normally have to include more information than completed permit application forms. This publication is a description of the items frequently required for an application to be complete. If your application does not contain either all the items or written valid explanations of why those items have been omitted, your application processing will be delayed.

RC-1W lists the required checklists, tables, drawings, legal documents, and letters. Please identify them as required and include them in your submittal. A box has been provided beside the listing of each such item to check when supplying the item indicated. Recommended formats for some items are in this publication.

If the proposed or existing use of water is equal to or greater than 100,000 gallons per day, an Individual Water Use permit will be required. In most cases, uses of water less than 100,000 gallons per day qualify for a General Water Use permit, unless the project is located in a Reduced Threshold Area (RTA). If you have any questions relating to whether a project is located inside or outside of an RTA, or any other questions pertaining to a water use application, please contact District staff in the Water Use Division, before you submit your application.

All applicants must fill out Sections I and II of RC-1W. Applicants for an Individual Water Use permit must also fill out one or more (depending on how many types of water uses are being requested) of the following Sections: III, IV, V, and VI. Applicants for a General Water Use permit must fill out, in addition to Sections I and II, Section VII of RC-1W. Pursuant to Chapter 471, F.S., all final plans and calculations for engineered systems shall be signed and sealed by a registered Florida Professional Engineer. Geologic and hydrogeologic plans, analysis, and documents submitted must be signed and sealed by a registered Florida Professional Geologist, in accordance with Chapter 492, F.S. Those applicants whose projects require a works of the District-surface water improvement and management (SWIM) permit must complete Sections I, II, and VIII.

An application for a modification to an existing permit or a renewal of an expiring permit often need not contain all the items described on the pages which follow, depending on what has been previously provided and the nature of the proposed modification. In such cases, it is even more important that you, the applicant, provide a brief written explanation of why those items are not being provided.

In most cases, your submittal should consist of:

- 1. One completed copy of RC-1A, and
- 2. Four copies of the completed RC-1W, and
- 3. Two copies of the aerial photograph(s), and
- 4. Four copies of other submitted items.

<u>.</u>

·

. •



SECTION I

SITE INFORMATION

A: Location Sketch

Submit, as Item I-1, an 8 $1/2" \times 11"$ detailed location sketch. It should contain enough information to allow someone who has general familiarity with the area to locate the project site on a map of the area.

B: Aerial Photograph

If a project is proposed (or existing), and an increase in allocation or change in crop type (i.e. from pasture to citrus) is requested, please submit as Item I-2 a vertical aerial photograph. (Oblique photographs are not acceptable substitutions.) The photograph, at a minimum, should: be the most recent available; not be an electrostatically printed or other poorly legible copy; be at a scale suitable for use in reviewing the water resource-related aspects of the project; have added to it the project boundaries; and have a north arrow and scale indicator.

C: Wetlands

Submit, as Item I-3, a written description of the existing vegetative cover.

Submit, as Item I-4, a written discussion of proposed area preservation techniques to be incorporated into the project. (This information will not be necessary if it is already included in the Environmental Resource Permit Application.)

Then, please present the data in the "Wetlands Control Elevation" format shown on page I-2 for all proposed wetlands in the project, and submit the data as Item I-5.

D: Other

In the course of developing the site information, you may have found it necessary to develop or use other items which do not conveniently fit into the approach described above. Submit those as Item I-6.



WETLANDS CONTROL ELEVATION TABLE

SFWMD ONLY

WETLAND		WETLAND-S	UPPORTING BASIN		
NUMBER/ LETTER	·	CONTROL ELEVATION (FT. NGVD)		BASIN NUMBER/ LETTER	
FOR PHA		OJECTS			
PHASE 1			TOTAL/IRRIGATED ACRES		
_			INITIATION DATE TOTAL/IRRIGATED ACRES		
			INITIATION DATE		
			NITIATION DATE		
DDITIONAL P	HASES				
HIS APPLICA	TION IS FO	R PHASE NO			
XCAVATI	ON PRO	JECTS			
IASE 1			INITIATION/COMPLETION DATE	s	
HASE 2 HASE 3			INITIATION/COMPLETION DATE	s	
IASE 4			INITIATION/COMPLETION DATE INITIATION/COMPLETION DATE	s s	
DITIONAL PH	HASES				
IS APPLICAT	ION IS FOR	PHASE NO			



SECTION II PROJECT INFORMATION

A: General Information

- 1. Submit, as Item II-1, a large scale project map designating the exact locations of all water use withdrawal facilities such as wells, surface water pumps, and culverts, as well as ditches, roads, canals, lakes, and other landmarks. Identify wells, surface water pumps, and culverts to correspond with Tables A, B, and C.
- 2. Please give the date water use is going to start, or if the project is existing, the date water use was initiated.

B: <u>Environmental Resource</u>

Describe the environmental resource and surface water management aspects of the project, indicating whether it has an existing system which is currently permitted - specifying Permit Number; an existing system which is unpermitted; a proposed system currently under District review - specifying Application Number; a proposed system for which an application has not yet been submitted; or a project which does not require an environmental resource surface water management system. If either the surface water management is existing and unpermitted, or proposed but not yet submitted, please refer to Form 0971 which provides instructions for the filling out of applications for District environmental resource permits. Because of the inseparable nature of water use and environmental resources, the water use application will not be considered complete until all necessary information for both applications has been provided and deemed to be complete.

C: Right-of-Way Occupancy

For withdrawals from the South Florida Water Management District (SFWMD) Canal System, you must submit either a verifiable application number and the date submitted (if an application has already been submitted for use of District works and lands), a verifiable permit number if a permit has already been issued for the proposed activities which affect District works or lands (designating the date permitted), or Form 0122 "Application to the South Florida Water Management District for Authority to Utilize Works or Lands of the District" if no application has yet been made.

D: <u>Facilities</u>

- 1. Describe all existing and proposed wells (including primary, secondary, and standby wells) by using the Table A format as depicted on page II-4. Submit as Item II-2A.
- Describe all existing and proposed surface water withdrawal pumps by using the Table B format as depicted on page II-5. Submit as Item II-2B.



3. Describe all existing and proposed withdrawal culverts by using Table C format as depicted on page II-5. Submit as Item II-2C.

E: <u>Water Problems</u>

If the project is existing, submit as Item II-3 a description of any water use problems you might be experiencing or adjacent water users are experiencing.

Submit, as Item II-4, an evaluation of potential impacts associated with the proposed withdrawals. At a minimum, the following should be addressed:

- 1. Adverse environmental impact. (See further the Basis of Review for Water Use Permit Applications within the South Florida Water Management District (BOR, 3.3).
- 2. Saline water intrusion. (See further <u>BOR</u>, 3.4).
- 3. Potential for induced contamination movement. (See further BOR, 3.5)
- 4. Potential for adverse impacts to existing offsite land uses. (See further BOR, 3.6).
- 5. Adverse impact on a legal use of water existing at the time of permit application. (See further <u>BOR</u>, 3.7).
- 6. Please submit an analysis of adverse impacts that withdrawals of water may cause. Please submit a proposed program for mitigating any adverse impacts. Submit these documents as Item II-5. (See further <u>BOR</u>, 3.7).

F: Location of Pollution Sources

Please provide, as Item II-6, a map which locates possible pollution sources, including but not necessarily limited to: landfills, percolation ponds, hazardous or toxic waste disposal sites, sewage mains (not including septic tanks), wastewater treatment facilities, industrial zoning or other zoning that may involve the use of hazardous materials, or saline water bodies within one mile of the wells and surface water pumps. The map should be keyed to a table which is numbered and corresponds accordingly to the type of pollution source.

G: <u>Type of Water Use Information</u>

Each application must additionally be accompanied by the responses to the appropriate water use type referenced below.

H: Other

In the course of developing the project information, you may have found it necessary to develop or use other items which do not conveniently fit into the approach described above. Submit those as Item II-7.



- 1. Livestock, nursery, recreational area, soil flooding, agricultural, freeze protection, golf course, and landscaping irrigation water uses must complete Section III-Irrigation Water Use.
 - 2. Public water supplies must complete Section IV-Public Water Supply Water Use.
 - 3. Mining/Dewatering water uses must complete Section V-Mining/Dewatering Water Use.
 - Power production, commercial and industrial processes, cooling and air conditioning, navigation, water-based recreation, aquaculture, diversion and impoundment into Non-District facilities, and others not mentioned above, must complete Section
 VI-Industrial Water Use.
 - 5. Applicants with small water uses, which have little potential for causing adverse impacts and meet the requirements of 40E-20, F. A. C. may be qualified for a General Water Use Permit. Those that are applying for this type of permit must complete Section VII. (See further BOR, 1.1).



TABLE A DESCRIPTION OF WELLS

WELL NUMBER			
MAP DESIGNATION			
EXISTING OR PROPOSED			
DIAMETER (INCHES)			
TOTAL DEPTH			
CASED DEPTH			
SCREENED INTERVAL			
PUMPED OR FLOWING			
WORKING VALVE, IF ARTESIAN (YES OR NO)			
PUMP TYPE (CENTRIFUGAL, JET, DEEP JET, TURBINE, ETC.)			
PUMP INTAKE ELEVATION FT BELOW GROUND			
PUMP OR FLOW CAPACITY (GPM AT FT OF HEAD AT PSI)			
STATUS (PRIMARY, SECONDARY, OR STANDBY)			
YEAR DRILLED			
PLANAR COORDINATES			
		1	



TABLE B DESCRIPTION OF SURFACE WATER PUMPS

DRAINAGE DISTRICT		
PUMP NUMBER		
MAP DESIGNATION		
SURFACE WATER BODY		
EXISTING OR PROPOSED		
PUMP MANUFACTURER AND MODEL NUMBER		
PUMP TYPE		
PUMP CAPACITY (GPM)		
PUMP HORSEPOWER		
PUMP DIAMETER		
ELEVATION OF INTAKE (NGVD)*		
IS PUMP A TWO WAY PUMP?		· · · · · · · · · · · · · · · · · · ·

TABLE C DESCRIPTION OF IRRIGATION CULVERTS

CULVERT NUMBER		
MAP DESIGNATION		
WATER BODY		
EXISTING OR PROPOSED		
DIAMETER **		
HEIGHT ***		
WIDTH ***		
TYPE OF CULVERT ****		
CULVERT LENGTH		
INVERT ELEVATION (NGVD) *		
TYPE OF CONTROL DEVICE		

- NGVD IS APROXIMATELY EQUAL TO MEAN SEA LEVEL
- ** FOR CIRCULAR CULVERTS
- FOR ELLIPTICAL CULVERTS
- **** CORRUGATED METAL, REINFORCED CONCRETE, ETC.



SECTION III IRRIGATION WATER USE

A: Ownership and Land Use (See further, BOR 2.1.1)

- Submit, as Item III-1, a copy of one of the following proof of ownership documents if this
 application is for a proposed water use, or if the project is permitted, and there is a change in
 ownership or project acreage:
 - a. A properly recorded deed.
 - b. An affidavit of ownership.
 - c. An executed contract for purchase.
 - d. Tax records.
 - e. A lease agreement.
- 2. Land Use Before an application will be considered for the issuance of a water use permit the proposed land use must be compatible with existing zoning or the local government comprehensive plan. If the proposed project is a Development of Regional Impact (DRI), a copy of the final approved Development Order must be provided as part of the application. Submit as Item III-2 at least one of the following documents:
 - Evidence of compatible zoning.
 - b. If the project is a Development of Regional Impact (DRI), a copy of the final approved development order.
 - c. Evidence that the project is compatible with the Local Government Comprehensive Plan.

B: Crop Type and Irrigation System

Please indicate total irrigated acreage. Irrigated acreage is the actual planted acreage subtracting roads, ditches, canals, swales, and other non-irrigated acreage from total acreage.

For phased projects, show acreage and initiation dates for each phase as in the "For Phased Projects" table format, on page I-2. (See further <u>BOR</u> 1.3.3). Please submit this as Item III-3.

Submit, as Item III-4, crop information using the Table D format, as depicted on page III-4. A line for each type of irrigation system (flood, drip, microjet, overhead, etc.) should be filled out. For example, if a grower has 150 acres of citrus on drip and 500 acres on flood, two lines of Table D would be filled out, one for drip and another for flood irrigation.



On the site map please outline irrigated acreages and crop types served by specific irrigation systems.

C: Water Use (See further BOR, 2,3)

- Indicate the total amount of water needed to meet the irrigation demands of all crops on an annual and maximum monthly basis. It is expected that most demands will be based on the allocation coefficients shown in Table 2-1 of the BOR.
- 2. Explain the basis for the crop requirements. For the situations where the criteria in Table 2-1 are not applicable, the explanation should usually include, but not necessarily be limited to, a separate written discussion, submitted as Item III-4A, of such items as:
 - a. site-specific soil characteristics
 - b. evapotranspiration and effective rainfall
 - c. depth to background water level
 - d. height of ground water mound
 - e. imigation field boundary
 - f. other specific information
- 3. Submit, as Item III-4B, plans which show that a reliable, calibrated water use accounting system has been, or will be, installed for each facility to monitor water useage. (See further <u>BOR</u>, 4.1) Acceptable water use accounting systems should usually include, but not necessarily be limited to, such methods as:
 - a. flow meters
 - b. clocks which totalize pump operations
 - c. fuel consumption
 - d. other reliable methods

D: Water Conservation (See further BOR, 2.3.1)

For landscape and golf course irrigation projects, please submit, as Item III-5, a water conservation plan. The following are mandatory plan elements and discussion of them must be provided:

- 1. The use of Xeriscape principles
- 2. The use of rainfall- or soil moisture-sensor systems to override automatic operations



Please submit, as Item III-6, any plans for either the use of reclaimed water or making reclaimed water available for other users.(See further <u>BOR</u>, 3.2.3)

E: Freeze Protection (See further BOR, 2.3.4)

The applicant may request a peak maximum daily withdrawal for freeze (or frost) protection, which is separate from the requested irrigation allocation. Freeze protection quantities should be based upon the number of acres to be protected, the protection type (flooding, micro-jet spray, overhead sprinklers, etc.), and the number of requested hours of pumpage time.

If the number of hours is not known, the maximum daily quantity should be based upon the lesser of either the best available data for frost/freeze recurrence and duration or the maximum rated withdrawal capacity of the permitted withdrawal facilities. Other methods should be discussed with District staff before the application is submitted. Please submit the freeze protection request and supporting documentation as Item III-7.

F: Golf Course Irrigation

On the site map, please show irrigated acreage for the following areas:

a. Rough

b. Fairway approaches

c. Fairways

d. Tees

e. Greens

f. Other

Please submit as Item III-8.

G: Other

In the course of developing the irrigation water use, you may have found it necessary to develop or use other items which do not conveniently fit into the approach described above. Submit those as Item III-9.



TABLE D CROP INFORMATION

	CROP 1	CROP 2	CROP 3	CROP 4
IRRIGATION SYSTEM				
NAME OF CROP				
ACRES PLANTED				
EXISTING OR PROPOSED				
NUMBER OF PLANTINGS *				
MONTH FIRST PLANTING *				
MONTH LAST PLANTING *				
TIME FROM PLANTING TO				

^{*}SEASONAL CROPS

TABLE E WATER USE FOR 12 MONTH PERIOD FROM ______ TO _____

MONTH	RAW WATER PUMPAGE		TOTAL RAW WATER	TOTAL WATER
	AVG. DAY	MAX. DAY	PUMPAGE (MGM)	TREATED (MGM)
				
0741				
OTAL		N/A		
VG. TIO OF WA		N/A		

RATIO OF WATER PUMPED TO WATER T	REATED
MAXIMUM DAY PUMPAGE WAS	MGD AND OCCURRED ON
RATIO OF MAXIMUM DAY PUMPAGE TO	AVERAGE DAY PUMPAGE WAS

Form 0845-G86

SECTION IV

PUBLIC WATER SUPPLY WATER USE

A: Population and Water Demand Analysis (See further BOR, 2.6)

Water use for a 12-month period (Item IV-1), past water use (Item IV-2), and projected water use (Item IV-3) should be submitted using the formats for Table E (depicted on page III-4), Table F (depicted on page IV-4), and Table G (depicted on page IV-4), respectively.

The proposed consumption of water per capita should be based on a permanent population. Include calculations showing the water savings expected to result from the implementation of water conservation measures. For each measure, be sure to identify the affected demand components, and calculate the estimated demand savings.

If proposed per capita consumption is greater than existing, explain the difference. If proposed per capita consumption is greater than 200 GPD, submit, as Item IV-4, the information using the Table H format, depicted on page IV-5.

The duration of Water Use permits varies geographically. Please consult District staff on this item.

B: Service Area (See further BOR, 2.1.1.3.1)

- 1. Please submit, as Item IV-5, a map showing the area served by the utility.
- 2. List interconnections with other suppliers and indicate ability to supply water via the connections. Please submit as Item IV-6.
- 3. Please submit, as Item IV-7, at least one of the following for service area documentation:
 - a. A copy of the Public Service Commission (PSC) certification describing the service area.
 - b. Applicants within Dade County submit documentation that your service area is franchised by the Miami Dade Water and Sewer Board.
 - c. If the applicant is regulated by local government, submit a copy of a local government franchise with the application.

Applicants not regulated by either the PSC or local government must submit applicable documentation.



C: Facilities

- 1. Please submit, as Item IV-8, descriptions of the following facilities:
 - a. Location of existing flow meters on individual wells, before treatment, after treatment, and/or at the customer's connections.
 - b. Storage facilities.
 - c. Existing and proposed water treatment plants, DEP rated capacity, potential capacity, and method of treatment.
 - d. Fire flow and stand-by capacity.
 - e. The existing wellfield operations schedule. This schedule should include those wells that are primary, secondary, standby, and any well rotation schedule.
- 2. Indicate the average daily sewage effluent production for the past 12 months, and the disposal point of the effluent.

D: Raw Water Quality

Provide, as Item IV-9, recent information on raw water quality, including but not necessarily limited to data from on-site testing/monitoring wells installed by the applicant, USGS monitoring wells, or any existing on-site wells.

E: Reverse Osmosis Treatment

Please submit, as Item IV-10, the following Reverse Osmosis (RO) treatment information, if applicable:

- 1. Treatment capacity of the RO plant.
- 2. The recovery efficiency.
- 3. The highest level of total dissolved solids (TDS) or chlorides that can be efficiently and economically treated using the installed membranes.
- 4. The chloride ion concentration in both the reject water and receiving water body.
- 5. A map showing the location of reject water discharge.

Please submit, as Item IV-11, a copy of approval letter from the Department of Environmental Protection for discharge of reject water resulting from the treatment process.



F: <u>Water Conservation</u> (See further <u>BOR</u>, 2.6.1)

For potable public water supply projects, please submit, as Item IV-12, a water conservation plan. The following are mandatory plan elements and discussion of them must be provided:

- 1. Limitation of lawn and omamental irrigation hours
- 2. Use of Xeriscape principles
- 3. Requirement of ultra-low volume plumbing in new construction
- 4. Water conservation based rate structures
- 5. Leak detection programs
- 6. Requirements of rain-sensor override for new lawn sprinkler systems
- 7. Water conservation public education programs
- 8. Analysis of economic, environmental, and technical feasibility of reusing reclaimed and/or recycled water
- 9. A schedule and processes for implementing, assessing, and periodically updating the water conservation plan
- 10. Any other appropriate elements

If the applicant for public water supply is a local government, documentation of the passage of an ordinance, or scheduled adoption of an ordinance for items No. 1, 2, 3 and 6, above, shall be submitted as Item IV-13.



G: Wellfield Protection

If the wellfield is covered by a wellfield protection ordinance, submit, as Item IV-14, documentation of approval from an appropriate governmental agency.

If the wellfield will not be protected by a wellfield protection ordinance, submit, as Item IV-15, a plan for protection of the wellfield.

H: Other

In the course of developing the public water supply water use, you may have found it necessary to develop or use other items which do not conveniently fit into the approach described above. Submit those as Item IV-17.



TABLE F PAST WATER USE

YEAR	PAST POPULATION	NUMBER OF UNITS*	PER CAPITA USAGE	TOTAL ANNUAL (MG)	AVG. DAY (MG)	MAX. DAY (MG)
19	•					
19						
19		-				
19						
19						
19						
19						
19						
19						
19						

TABLE G PROJECTED WATER USE

YEAR	PROJECTED POPULATION	NUMBER OF UNITS*	PER CAPITA USAGE	TOTAL ANNUAL (MG)	AVG. DAY (MG)	MAX. DAY (MG)
19						
19						
19						
19						
19						
19						<u> </u>
19						
19						
19						
19						

^{*}CUMULATIVE



TABLE H PROJECTED WATER DEMAND

(PER CAPITA USE GREATER THAN 200 GPD)

TYPE OF UNIT OR WATER USE TYPE	SINGLE FAMILY	MULTI- FAMILY	INDUS- TRIAL	COM- MERCIAL	MOBIL HOME	OTHER	TOTAL WATER DEMAND
YEAR 19(A)							
(B)							
(A X B)							
YEAR 19(A)							
(B)							
(A X B)							
YEAR 19							
(B)							
(A X B)							
YEAR 19							
(B)							
(A X B)							
YEAR 19(A)							
(B)							
(A X B)							
YEAR 19							
(B)							
(A X B)							

(A)

NUMBER OF UNITS

(A X B)

PER UNIT RATE

WATER DEMAND

Form 0845-G71

SECTION V

MINING/DEWATERING WATER USE

A: Ownership and Land Use (See further BOR, 2.1.1)

- 1. Submit, as Item V-1, a copy of one of the following proof of ownership documents if this application is for a proposed water use, or if the project is permitted but there is a change in ownership or project acreage:
 - a. A properly recorded deed.
 - b. An affidavit of ownership.
 - c. An executed contract for purchase.
 - d. Tax records.
 - e. A lease agreement.
- 2. Land Use Before an application will be considered for the issuance of a water use permit, the proposed land use must be compatible with existing zoning or the local government comprehensive plan. If the proposed project is a Development of Regional Impact (DRI), a copy of the final approved Development Order must be provided as part of the application. Submit, as Item V-2, at least one of the following documents:
 - a. Evidence of compatible zoning.
 - b. If the project is a Development of Regional Impact (DRI), a copy of the final approved development order.
 - c. Evidence that the project is compatible with the Local Government Comprehensive Plan.

B: Project Description (See further BOR, 2.5)

- 1. Explain in detail the method of excavation and show total excavated acreage.
- For phased projects, show acreage, and initiation and completion dates for each phase, as in the "Excavation Projects" table format on page I-2. (See further <u>BOR</u>, 1.3.3). Please submit as Item V-3.
- 3. Indicate the elevation (ft. NGVD) to which the ground water will be lowered as a consequence of the dewatering.
- 4. State the maximum depth of the pit to be excavated.
- 5. Indicate the working hours: hours/day, days/week, weeks/year.
- 6. State the quantity of water requested as an annual (gals/year) and maximum day allocation. Explain briefly the derivation of the requested amounts.

State the duration of the use of water. The District will consider projected needs for a 3 year period or less.



7. Provide the name, address, and phone number of the contractor if different from the applicant.

C: Location

1. Provide, as Item V-4, a site map. Show the pit area (existing and/or proposed dimensions, including the maximum depth of excavation), stockpile area, dike and levees (cross-sections designating height, width, side slopes), retention area location and linear extent, pumps, culverts, and canals (designating side slopes and dimensions including height, width, and depth), staff gauges, monitoring wells and direction of natural run-off.

Submit, as Item V-5, a site map with the above information for each phase if this is a phased project.

- 2. Submit, as Item V-6, a topographic map of the presently existing project site. At a minimum the map should:
 - a. Extend to, and cover, all adjacent hydrologically related areas.
 - b. Contain one-foot contour lines which extend at least 100 feet beyond the project in all directions.
 - c. Show at least one permanent bench mark in the vicinity of each proposed major water control structure, related to National Geodetic Vertical Datum (NGVD).

D: Water Quality

Provide, as Item V-7, recent information on water quality, including but not necessarily limited to, data from on-site test/monitoring wells installed by the applicant, USGS monitoring wells, and any existing on-site wells.

E: Historical Water Usage

Submit, as Item V-8, pumpage records of existing water usage and the time period of usage.

F: Water Table and Geologic Data

- 1. Provide information on wet season and dry season water table elevations.
- 2. Submit, as Item V-9 or V-10 respectively, copies of lithologic and/or geophysical logs which have been made at the pit site.



G: Drainage System and Structural Stability

- 1. Submit, as Item V-11, plans for routing of stormwater, and Item V-12, plans for on-site—water retention system facilities.
- 2. Provide, as Item V-13, information on the structural stability of dikes, levees, structures, and pit slopes.

H: Dewatering in Conjunction with Landfill Operation

Please provide, as Item V-14, the following:

- 1. Landfill location and site map.
- 2. Date landfill began operation.
- 3. Expected life of landfill.
- 4. Type of waste accepted. Please indicate the type of waste accepted in the past if different from waste accepted presently.
- 5. Method of waste disposal. Indicate how and where the waste is and has been buried. Elaborate on waste buried below the water table, wet season elevation.
- 6. Site engineering plans and information, to include:
 - a. Ground water pollution control measures.
 - b. Leachate collection system and treatment. Has leachate been found at the site?
 - c. Location and type of liners.
- 7. Monitoring program for ground water pollution control.
 - Indicate the location of monitoring wells on a map, showing areal extent and location of the landfill.
 - b. Provide well logs and well construction details.
 - c. Supply all water quality and water level data collected during the monitoring program.
 - d. Supply any additional information or reports related to the effect of the landfill on ground water levels or water quality.

i: Other

In the course of developing the mining/dewatering water use, you may have found it necessary to develop or use other items which do not conveniently fit into the approach described above. Submit those as Item V-15.

Form 0845-G74

SECTION VI

INDUSTRIAL WATER USE

A: Ownership and Land Use (See further BOR, 2.1.1)

- 1. Submit, as Item VI-1, a copy of one of the following proof of ownership documents if this application is for a proposed water use, or if the project is permitted but there is a change in ownership or project acreage:
 - a. A properly recorded deed.
 - b. An affidavit of ownership.
 - c. An executed contract for purchase.
 - d. Tax records.
 - e. A lease agreement.
- 2. Land Use Before an application will be considered for issuance of a water use permit, the proposed land use must be compatible with existing zoning or the local government comprehensive plan. If the proposed project is a Development of Regional Impact (DRI), a copy of the final approved Development Order must be provided as part of the application. Submit, as Item VI-2, at least one of the following documents:
 - Evidence of compatible zoning.
 - b. If the project is a Development of Regional Impact (DRI), a copy of the final approved development order.
 - c. Evidence that the project is compatible with the Local Government. Comprehensive Plan.

B: Water Demand Analysis (See further BOR, 2.4)

Provide the following information concerning existing and proposed water use:

- 1. Existing or projected quantity of water applied for as an annual allocation (gals/year). The requested allocation should equal the average day pumpage multiplied by 365 days/year. Include calculations showing the water savings expected to result from the implementation of water conservation measures. For each measure, be sure to identify the affected demand and components, and calculate the estimated demand savings.
- 2. Maximum day pumpage associated with the average day pumpage.
- 3. Maximum day to average day demand ratio used in calculating the projected maximum day pumpage. Explain briefly the derivation of this number.
- 4. Future year on which the quantity of water is based. The District will consider projected needs for a 10-year period or less. If project is existing, please submit as Item VI-3 the most recent 12 months of pumpage records using the Table E format, as depicted on page III-4.



5. If the activity is proposed as part of a remedial action plan which has been approved by an appropriate state- or local-government agency, please subrate as Item VI-4, a copy of the approved plan.

C: Facilities

- 1. On the site map submitted as Item II-1, locate wastewater treatment facilities, water treatment plants, and disposal points.
- 2. Describe the water treatment plant capacity, treated water storage capacity, and in-plant losses.
- 3. Describe the fire-flow capability and stand-by capacity.

Please submit, as Item VI-5, a pump/wellfield operation schedule. Include in the schedule which pumps are primary, secondary, stand-by, and pump rotation.

D: <u>Processes and Wastewater Disposal</u> (See further <u>BOR</u>, 2.4.2)

Please submit, as Item VI-6, the following information:

- 1. Description of the industrial process and how water is used in the process.
- 2. Descriptions of the changes to the water by the process, including thermal, physical, and chemical changes.
- 3. Description of the manner in which wastewater is disposed (i.e., evaporation, percolation ponds, injection wells, canal discharge, spray irrigation, etc.).

E: Water Conservation (See further BOR, 2.4.1)

Please submit, as Item VI-7, a water conservation plan. The following are mandatory plan elements and discussion of them must be provided:

- A water use audit plan with emphasis on leak detection and follow-up repair, and recovery and recycling
- 2. A program for making technical, procedural, or programmatic changes to decrease water use
- 3. The development and use of water conservation awareness education programs for employees and consumers



4. A schedule and processes for implementing, assessing, and periodically updating the water conservation plan

Please submit, as Item VI-8, any plans for either the use of reclaimed water or making reclaimed water available for other users.

F: Other

In the course of developing the industrial water use, you may have found it necessary to develop or use other items which do not conveniently fit into the approach described above. Submit those as Item VI-9.

Form 0845-G76

SECTION VII

GENERAL WATER USE PERMITS

A: Ownership and Land Use (See further BOR, 2.1.1)

- 1. Submit, as Item VII-1, a copy of one of the following proof of ownership documents if this application is for a proposed water use, or if the project is permitted but there is a change in ownership or project acreage:
 - a. A properly recorded deed.
 - b. An affidavit of ownership.
 - c. An executed contract for purchase.
 - d. Tax records.
 - e. A lease agreement.

B: General Information

For existing projects, show how long the project has been in existence.

Show the average existing or proposed daily water usage, and the maximum water used or proposed to be used, in a day.

C: Type of Water Use

Irrigation - Show the crop type and total irrigated acreage. Crop types include grass, citrus, nursery stock, etc. Irrigated acreage is the actual planted acreage subtracting roads, ditches, canals, swales, and other non-irrigated acreage from total acreage.

For phased projects, show acreage and initiation dates for each phase. (See further <u>BOR</u>, 1.3.3). Please use the "For Phased Projects" table format, on page I-2, and submit as Item VII-2.

Short term dewater - If the project will involve short-term dewatering, fill out and submit as Item VII-3, one copy of Form 0445 'Notice of Intent to Short-Term Dewater,' and submit the supporting items listed in the form, unless they have been submitted as required in previous sections of this application.

Aquifer rehabilitation - If the activity is proposed as part of a remedial action plan which has been approved by an approprite state- or local-government agency having legal jurisdiction over such activities, please submit, as Item VII-4, a copy of the approved plan.

D: Other Information

Provide, as Item VII-5, any other information that might be helpful in the evaluation of this application.

SECTION VIII



WORKS OF THE DISTRICT - SURFACE WATER IMPROVEMENT AND MANAGEMENT

If your proposed project is on a parcel or parcels for which a works of the District - surface water improvement and management (SWIM) permit is required, you must apply for and obtain such a permit, if you have not already done so. Please contact District staff before making your submittal, if you have any questions.

If a works of the District (SWIM) permit has already been issued for the proposed project, please provide the Permit number.

If a works of the District (SWIM) permit has been applied for, but the permit has not yet been issued, supply the date of the application, and (if known) the application number.